IN THE CLAIMS:

Please cancel claims 9-10 as directed to a non-elected invention.

Please also cancel claim 7.

Please substitute claims 1, 5, and 6 with the corresponding amended claims as set forth in the complete listing of claims as set forth below.

1. (Currently Amended) A pharmaceutical composition for topical application at a site requiring new bone, cartilage or connective tissue formation in a subject, comprising a plurality of bone marrow stromal cells (MSCs) isolated from the subject;

wherein the MSCs comprise emprising a vector comprising a DNA sequence encoding BMP-2 operably linked to a promoter, and a pharmaceutically acceptable polymer, and wherein a biodegradable plate is applied to the site prior to the application of the composition.

- 2. (Original) The composition as recited in Claim 1 wherein the polymer is selected from a group consisting of alginate and collagen.
- 3. (Original) The composition as recited in Claim 1 wherein the MSCs are present in a concentration of about 50×10^6 per ml of the polymer.
- (Previously Amended) The composition as recited in Claim 1 wherein the polymer is collagen type I.

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- 5. (Currently Amended) A method of enhancing new bone, cartilage or connective tissue formation in a subject, comprising:
 - a. obtaining a plurality of bone marrow stromal cells (MSCs) from a subject;
- b. transducing the MSCs of step a) with a vector comprising a DNA
 sequence encoding BMP-2 operably linked to a promoter to generate BMP-2 protein producing
 MSCs; and
- c. applying a biodegradable plate to topically applying the BMP-2 protein producing MSCs at a site requiring new bone, cartilage or connective tissue formation on the subject; and
- d. applying a composition comprising the BMP-2 protein producing MSCs
 and a pharmaceutically acceptable polymer to the site,

such that new bone, cartilage or connective tissue formation is enhanced.

- (Currently Amended) The method as recited in Claim 5 wherein the BMP-2 gene
 DNA sequence encoding BMP-2 is transferred via an adenovirus.
 - 7. (Cancelled)
- 8. (Previously Amended) The method as recited in Claim 5 wherein the protein producing MSCs are topically applied in a concentration of about 50×10^6 per ml of a pharmaceutically acceptable polymer and produce an effective amount of the protein.
 - 9. (Cancelled)

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10. (Cancelled)